



DISCOVER-AQ P-3B

Navigation Parameters

Sensor	Measurement	Parameter	Unit	Description
Sperry AZ-800 Air Data Computer	Meteorological and Navigational Parameters	FMS_ALT_PRES	Feet	Aircraft pressure altitude
Sperry AZ-800 Air Data Computer	Meteorological and Navigational Parameters	FMS_TAS	Knots	Aircraft True Air Speed
Sperry AZ-800 Air Data Computer	Meteorological and Navigational Parameters	FMS_SAT	DegC	Aircraft Static Air Temp
Universal Navigation GPS-1000 Receiver	Meteorological and Navigational Parameters	FMS_LAT	Degs	Aircraft Latitude
Universal Navigation GPS-1000 Receiver	Meteorological and Navigational Parameters	FMS_LON	Degs	Aircraft Longitude
Honeywell Laseref Inertial Reference System	Meteorological and Navigational Parameters	FMS_GRD_SPD	Knots	Aircraft Ground Speed
Honeywell Laseref Inertial Reference System	Meteorological and Navigational Parameters	FMS_HDG	Degs	Aircraft True Heading
Honeywell Laseref Inertial Reference System	Meteorological and Navigational Parameters	FMS_TRK	Degs	Aircraft ground track
Honeywell Laseref Inertial Reference System	Meteorological and Navigational Parameters	FMS_WNS	Knots	Wind speed
Honeywell Laseref Inertial Reference System	Meteorological and Navigational Parameters	FMS_WND	Degs	Wind direction
Honeywell Laseref Inertial Reference System	Meteorological and Navigational Parameters	IRS_PITCH	Degs	Aircraft pitch angle
Honeywell Laseref Inertial Reference System	Meteorological and Navigational Parameters	IRS_ROLL	Degs	Aircraft roll angle
Honeywell Laseref Inertial Reference System	Meteorological and Navigational Parameters	IRS_VERT_ACC	G	aircraft vertical acceleration
Sperry AZ-800 Air Data Computer	Meteorological and Navigational Parameters	ADC_IAS	Knots	Aircraft indicated air speed
Universal Navigation GPS-1000 Receiver	Meteorological and Navigational Parameters	GPS_ALT	Feet	GPS Altitude
Edgetech Vigilant 137 Chilled Mirror Hygrometer	Meteorological and Navigational Parameters	A_DewPoint	DegC	Dew point temperature
Derived	Meteorological and Navigational Parameters	A_CabinPressure	psi	Cabin pressure
Heimann Model KT 19.85 Pyrometer	Meteorological and Navigational Parameters	A_SurfTemp	DegC	Surface temperature
J(NO ₂) Filter Radiometer	Meteorological and Navigational Parameters	A_JNO2_Nadir	sec-1	nitrogen dioxide photolysis rate coefficient nadir view measurement
J(NO ₂) Filter Radiometer	Meteorological and Navigational Parameters	A_JNO2_Zenith	sec-1	nitrogen dioxide photolysis rate coefficient zenith view measurement
Honeywell AA-300 Radar Altimeter	Meteorological and Navigational Parameters	A_RadarAlt	Feet	Radar altitude
Rosemount Model MADT 2014 Transducer	Meteorological and Navigational Parameters	C_StaticPressure	Mb	Ambient Static Pressure
Rosemount Model E102	Meteorological and Navigational Parameters	C_StatTempDegC	DegC	Ambient Static Temp
Derived	Meteorological and Navigational Parameters	C_PotTempDegK	DegK	Potential Temperature
Sperry AZ-800 Air Data Computer	Meteorological and Navigational Parameters	C_MachNumber	Mach	Aircraft Mach Number
Edgetech Vigilant 137	Meteorological and	C_VaporPresWater	Mb	Vapor Pressure over water

Chilled Mirror Hygrometer	Navigational Parameters			
Rosemount Model E102 PRT	Meteorological and Navigational Parameters	C_SatVaporPresWater	Mb	Saturated Vapor Pressure over water
Rosemount Model E102 PRT	Meteorological and Navigational Parameters	C_SatVaporPresIce	Mb	Saturated Vapor Pressure over ice
Edgetech Vigilant 137 Chilled Mirror Hygrometer	Meteorological and Navigational Parameters	C_MixingRatio	g/Kg	water vapor mass mixing ratio
Derived	Meteorological and Navigational Parameters	C_RelHumidity	%	Relatice humidity

